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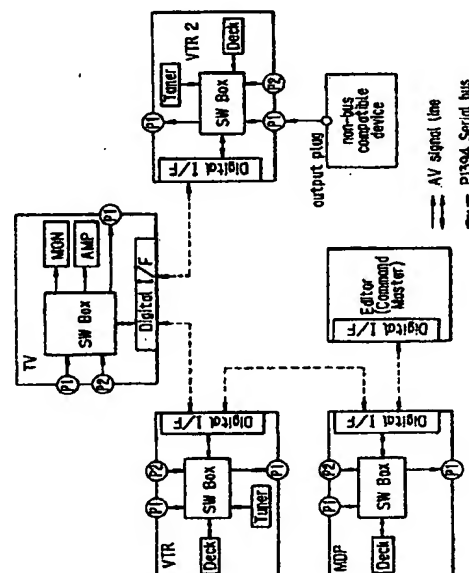
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(64) Communications systems.

(67) A communications system comprises items of equipment connected via a bus capable of transferring combinations of control signals and AV signals as packets while providing an environment which is the same as an environment where connections are made using analog signal lines. A register decided by an address is taken to be a virtual plug for each item of equipment. A plug enable for an input plug is set to 1 and a synchronous communication packet for the AV signal from the channel set by the channel number is received. A plug enable for an output plug is set to one and the synchronous communication packet for the information signal is sent to the channel set by the channel number at a transmission speed designated by the DR (Data Rate) at the bandwidth expressed by "Bandwidth".

FIG. 1



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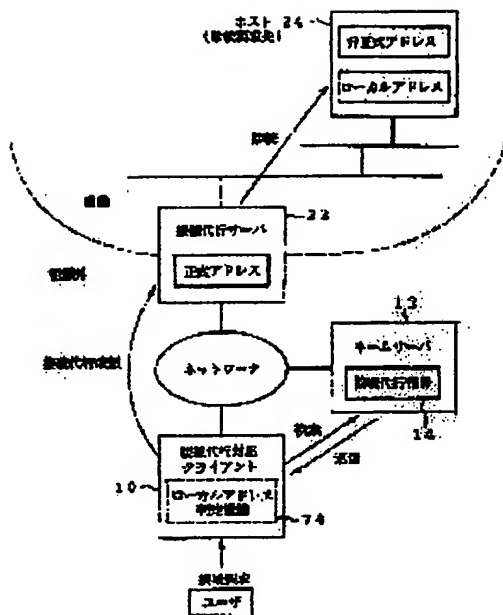
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(54) NETWORK CONNECTION SYSTEM, CONNECTION REPRESENTATIVE
DEALING CLIENT, AND STORAGE MEDIUM STORED WITH PROGRAM FOR
REALIZING CONNECTION REPRESENTATIVE DEALING CLIENT



(57)Abstract:

PROBLEM TO BE SOLVED: To perform communication by automatically establishing connection from the outside of an organization to a host having no formal address inside the organization corresponding to the simple connection request of presentation of only a host name.

SOLUTION: A connection representative server 22 acts and repeats the connection between a host machine 24 having a non-formal address or a local address and a host machine having the formal address outside the organization. A name server 12 previously registers the relation of

correspondence between the host machine 24 having no formal address and the connection substitute server 22 as connection representative server information 14. When a communication request designating the host name of the connection request destination is received, a connection representative dealing client 10 requests the retrieval of the connection representative server information 14 to the name server 12 and requests the representative of connection with the host machine 24 having the non-formal address or the local address to the connection representative server 22 recognized from the retrieved result, and the connection to the host machine 24 belonging to the other organization and having no formal address is enabled.